

Recombinant Full Length Human PUS1 protein

Cat. No. PUS1-8042H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PUS1 aa. (Met1~Asp427 (Accession # Q9Y606)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	1-427 a.a.
Description	This gene encodes a pseudouridine synthase that converts uridine to pseudouridine once it has been incorporated into an RNA molecule. The encoded enzyme may play an essential role in tRNA function and in stabilizing the secondary and tertiary structure of many RNAs. A mutation in this gene has been linked to mitochondrial myopathy and sideroblastic anemia. Alternate splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 51.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 8.7.

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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.

GENE INFORMATION

Gene Name	PUS1 pseudouridylate synthase 1 [Homo sapiens (human)]
Official Symbol	PUS1
Synonyms	MLASA1; mitochondrial tRNA pseudouridine synthase A; tRNA pseudouridine(38-40) synthase; tRNA pseudouridylate synthase I; tRNA uridine isomerase I; tRNA pseudouridine synthase A, mitochondrial
Gene ID	80324
mRNA Refseq	NM_001002019.2

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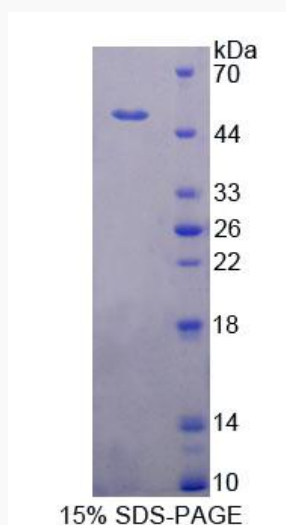
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Protein Refseq NP_001002019.1

UniProt ID Q9Y606

SDS-PAGE



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